Claims

1. Method for synchronizing subcode time codes and sector addresses of data contained on a recording medium for the communication between a data processing system (3) and a micro controller (1), comprising the steps of:
- sending (4) a number of sectors from the micro controller (1) to the data processing system (3);
- requesting (8) information about the sector headers of the received sectors from the data processing system (3); and
- calculating (9) the difference between the subcode time codes and the sector addresses using the information about the sector headers
characterized in that it further comprises the steps of repeating the synchronisation steps (4, 8, 9) for every session on the recording medium.

2. Method for synchronizing subcode time codes and sector addresses of data contained on a recording medium for the communication between a data processing system (3) and a micro controller (1), comprising the steps of:
- sending (4) a number of sectors from the micro controller (1) to the data processing system (3);
- requesting (8) information about the sector headers of the received sectors from the data processing system (3); and
- calculating (9) the difference between the subcode time codes and the sector addresses using the information about the sector headers,
characterized in that it further comprises the steps of:
- asking (5) the data processing system (3) for a confirmation of sector reception; and
- implementing (7) a continuity counter in the data processing system (3) to check if the expected sectors were received.

3. Method according to claim 1 or 2, **further** comprising the step of storing the sectors in a memory (2).

4. Method according to any of claims 1-3, **characterized** in that absolute time information conveyed in the sector headers and in absolute time fields of the q-channel of the subcode frame is used for calculating the difference between the subcode time codes and the sector addresses.

5. Communication protocol for the communication between a data processing system (3) and a micro controller (1), whereby a set of commands and messages necessary for synchronization between subcode time codes and sector addresses of data contained on a recording medium is defined, the set of commands and messages comprising commands for scanning sectors and for reading sector data and messages for sending information on the sectors and the read sector data **characterized** in that it further comprises commands and messages for asking (5) the data processing system (3) for a confirmation of sector reception.

6. Decoder for optical recording media, **characterized** in that it performs a method according to any of claims 1-4 or uses a communication protocol according to claim 5.

7. Apparatus for reading from and/or writing to optical recording media, **characterized** in that it performs a method according to any of claims 1-4, uses a communication protocol according to claim 5, and/or uses a decoder according to claim 6.